·	Application No.	Applicant(s)
Notice of Allowability	09/909,497	BAUERLEIN, PETER
	Examiner	Art Unit
	Dah-Wei D Yuan	1745
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI- of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to 6/1/04.		
2. ☑ The allowed claim(s) is/are <u>1-12</u> .		
3. The drawings filed on 20 July 2001 are accepted by the Example 1.	aminer.	
4. ☑ Acknowledgment is made of a claim for foreign priority un a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☑ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 4. ☐ Copies of the priority documents have 5. ☐ Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMITHIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftsperson of the priority documents have a claim o	been received. been received in Application No cuments have been received in this rec	complying with the requirements S AMENDMENT or NOTICE OF ion is deficient. 148) attached ffice action of gs in the front (not the back) of
 DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F 	sit of BIOLOGICAL MATERIAL m	ust be submitted. Note the
Attachment(s)	5 🗆 11 (11 (11 (11 (11 (11 (11 (11 (11 (11	
 Notice of References Cited (PTO-892) Description Notice of Draftperson's Patent Drawing Review (PTO-948) 		etent Application (PTO-152)
,	 Interview Summary (Paper No./Mail Date)
 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 	B), 7. ⊠ Examiner's Amendm	ent/Comment
4. Examiner's Comment Regarding Requirement for Deposit		nt of Reasons for Allowance
of Biological Material	9.	
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Ni/METAL HYDRIDE SECONDARY ELEMENT

Examiner: Yuan

S.N. 09/909,497

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October 7, 2004

Continued Examination Under 37 CFR 1,114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on June 16, 2004 has been entered. Claims 1,3,4,9,10,12 were amended.

2. The text of those sections of Title 35, U.S.C. code not included in this action can be found in the prior Office Action issued on October 3, 2003.

Examiner's Amendment

- 3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 4. Authorization for this examiner's amendment was given in a telephone interview with Mr. Marcus W. Sprow on October 7, 2004. The application has been amended as follows: In claim 12, line 4, after "cobalt" add "oxide".

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Claim Rejections

5. The claim rejections under 35 U.S.C. 103(a) as obvious over Hayashi and Yano et al. on claims 1-12 are withdrawn because the independent claims 1,9,10,12 have been amended.

Reasons for Allowance

6. Claims 1-12 are allowed. The invention of independent claim 1 recites a Ni/metal hydride secondary battery comprising a negative electrode comprising a hydrogen storage alloy, an alkaline electrolyte and a positive electrode comprising a mixture of nickel hydroxide, cobalt oxide and an aluminum compound, wherein the aluminum compound is provided as a coating of Al(OH)₃ on the surface of at least one of the positive electrode and the nickel hydroxide when the battery is charged. The closest prior arts of record, Hayashi and Yano, do not teach or suggest the positive electrode comprising a bulk material mixture of nickel hydroxide, cobalt oxide and an aluminum compound as recited in the claim. The invention of independent claim 9 recites a Ni/metal hydride secondary battery comprising a negative electrode comprising a hydrogen storage alloy, an alkaline electrolyte and a positive electrode comprising a mixture of nickel hydroxide, cobalt oxide and an aluminum compound selected from the group consisting of a aluminum oxide and aluminum hydroxide in powder form, wherein the aluminum compound becomes dissolved into the electrolyte and modifies surface portions of the positive electrode when the battery is charged. The closest prior arts of record, Hayashi and Yano, do not teach or suggest the positive electrode comprising a bulk material mixture of nickel hydroxide, cobalt oxide and an aluminum compound selected from the group consisting of a aluminum oxide and

aluminum hydroxide in powder form a Ni/metal hydride secondary battery. The invention of independent claim 10 recites a Ni/metal hydride secondary battery comprising a negative electrode comprising a hydrogen storage alloy, an alkaline electrolyte and a positive electrode comprising a mixture of nickel hydroxide, cobalt oxide and an aluminum compound, wherein the aluminum compound becomes dissolved into the electrolyte and form a film of Al(OH)3 on surface portions of the positive electrode when the battery is charged. The closest prior arts of record, Hayashi and Yano, do not teach or suggest the positive electrode comprising a bulk material mixture of nickel hydroxide, cobalt oxide and an aluminum compound, wherein a film of Al(OH)₃ on surface portions of the positive electrode is formed when the battery is charged. The invention of independent claim 12 recites a method of forming an active positive electrode in a battery comprising mixing nickel hydroxide, cobalt oxide and a powder of an aluminum compound to form a bulk material, causing portions of the aluminum compound to dissolve into the electrolyte by charging the battery and forming a film of Al(OH)3 on the surface portions, thereby activating the positive electrode. The closest prior arts of record, Hayashi and Yano, do not teach or suggest a method of forming an active positive electrode comprising mixing the bulk material of nickel hydroxide, cobalt oxide and an aluminum compound and forming a film of Al(OH)₃ on surface portions of the positive electrode when the battery is charged.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dah-Wei D. Yuan whose telephone number is (571) 272-1295. The examiner can normally be reached on Monday-Friday (8:00-5:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan, can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Dah-Wei D. Yuan October 8, 2004